

Notice of Allowability

Application No.

09/548,511

Examiner

Basia Ridley

BR

Applicant(s)

ARENCIBIA, JOSE P

Art Unit

1764

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to Amendment filed on 18 January 2005.
2. ☒ The allowed claim(s) is/are 1,2,4 and 5.
3. ☐ The drawings filed on _____ are accepted by the Examiner.
4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☐ All b) ☐ Some* c) ☐ None of the:
 1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
 6. ☒ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☒ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☐ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/08),
Paper No./Mail Date _____
4. ☐ Examiner's Comment Regarding Requirement for Deposit
of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☐ Interview Summary (PTO-413),
Paper No./Mail Date _____
7. ☒ Examiner's Amendment/Comment
8. ☐ Examiner's Statement of Reasons for Allowance
9. ☐ Other _____

EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Mr. James Simmons on 2 March 2004.

The application has been amended as follows:

In the claims:

Claims 6-20 were cancelled.

In the specification:

page 5, line 10 "baffles , of" was replaced with --baffles, of--;

page 13, line 9 "chamber34" was replaced with --chamber 34--;

page 13, line 13 "FIG. 2 A" was replaced with --FIG. 2A--;

page 16, lines 14-16 "The point of contact 130 between reaction vessel wall 120 and channel coil 100 of reaction vessel 110 and the point of contact 131 between reactor vessel wall 125 and channel coil 100 of reactor vessel 114" was replaced with --The points of contact 130 and 131 between reactor vessel wall 120 and channel coil 100 of reaction vessel 110 and between reactor vessel wall 125 and channel coil 100 of reactor vessel 114--;

page 17, lines 20-21 "These alternate layer method of application may varied" was replaced with --The alternate layer method of application may be varied--;

page 19, line 10 "wall 449" was replaced with --wall 448--;

page 19, line 30 "wall 449" was replaced with --wall 448--;

Art Unit: 1764

page 20, line 2 “wall 449” was replaced with --wall 448--;

page 22, line 12 “ellipsoids and airfoils 449” was replaced with --ellipsoidal and airfoil walls 448--;

page 25, line 8 “internal vessel 59 and an evacuated shell 57” was replaced with --internal vessel 57 and an evacuated shell 59--;

page 26, line 18 “to 447 in Figure 5A.” was replaced with --to 445 in Figure 5A.--;

page 26, line 19 “to 445 in Figure 5A.” was replaced with --to 447 in Figure 5A.--;

abstract, line 5 “may be” was replaced with --is--.

2. The following drawing figures are acceptable:

- Fig. 8D filed on 13 April 2000;
- Fig. 2A, 2B, 3A, 4, 6A, 8A, 8C and 11 filed on 18 January 2005.

3. The following changes to the drawings have been approved by the examiner and agreed upon by applicant:

- in Fig. 1A underline reference number “50” to clearly indicate the phase separator;
- in Fig. 1B underline reference number “34” to clearly indicate the mixing chamber;
- in Fig. 3B delete reference number “110”;
- in Fig. 5A delete reference number “449” indicating wall, add reference number “451” indicating level of boiling liquid as described on page 19, lines 28-29, change “LIQUID IN (COOLING OR HEATING)” to --LIQUID IN (COOLING) OR GAS IN (HEATING)-- (see P12/L9-P13/L12), and change “GAS OUT (COOLING OR HEATING)” to --GAS OUT (COOLING) OR LIQUID OUT (HEATING)-- (see P12/L9-P13/L12);
- in Fig. 5B delete reference number “449” indicating wall, change “GAS OUT (COOLING) GAS IN (HEATING)” to --LIQUID IN (COOLING) OR GAS IN (HEATING)--, and change

Art Unit: 1764

“LIQUID IN (COOLING) LIQUID OUT (HEATING)” to --GAS OUT (COOLING) OR LIQUID OUT (HEATING)--;

- in Fig. 5C delete reference number “449” indicating wall, change “LIQUID IN (COOLING OR HEATING)” to --LIQUID IN (COOLING) OR GAS IN (HEATING)--, and change “GAS OUT (COOLING OR HEATING)” to --GAS OUT (COOLING) OR LIQUID OUT (HEATING)--;
- in Fig. 5D delete reference number “449” indicating wall, change reference number “447” indicating bottom opening to “449”, change reference number “445” indicating top opening to “446”, use reference number “450” to indicate liquid, change “GAS OUT (COOLING) GAS IN (HEATING)” to --LIQUID IN (COOLING) OR GAS IN (HEATING)--, and change “LIQUID IN (COOLING) LIQUID OUT (HEATING)” to --GAS OUT (COOLING) OR LIQUID OUT (HEATING)--;
- in Fig. 5E change reference number “449” to “448”;
- in Fig. 5F change reference number “449” to “448”;
- in Fig. 6B change reference number “447” indicating bottom opening to “449”, delete reference number “445” and add reference number “446” to indicate top opening;
- in Fig. 7A delete reference number “460” indicating internal area of reactor vessel;
- in Fig. 7B, extend the horizontal line in top area of one of the mixing baffles to indicate liquid level, change reference numbers “447” indicating bottom opening to “449” (both occurrences), change reference numbers “445” indicating top opening to “446” (both occurrences);
- in Fig. 8B change reference number “102” to “100”
- in Fig. 9A, change reference number “449” to “449a”, and change reference number “120” to “112”;
- in Fig. 9B extend the horizontal line in top area of the mixing baffles to indicate liquid level, use

Art Unit: 1764

reference number "450" to indicate liquid, change reference number "447" indicating bottom opening to "449", change reference number "445" indicating top opening to "446", and change reference number "120" to "113";

- in Fig. 10 change reference number "59" to "57" to correctly indicate internal vessel, and change reference number "57" to "59" to correctly indicate evacuated shell.

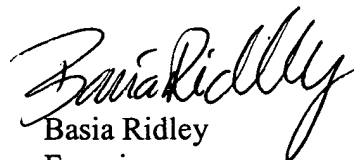
In order to avoid abandonment of the application, applicant must make these above agreed upon drawing changes.

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to examiner Basia Ridley, whose telephone number is (571) 272-1453.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Glenn Caldarola, can be reached on (571) 272-1444.

The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306.

Technical Center 1700 General Information Telephone No. is (571) 272-1700. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Questions on access to the Private PAIR system should be directed to the Electronic Business Center (EBC) at (866) 217-9197 (toll-free).



Basia Ridley
Examiner
Art Unit 1764

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March 4, 2005